

**WHAT IS CLAIMED IS:**

1. A scanning apparatus adaptable for two resolutions, wherein the scanning apparatus has a cover and a scanning bed and is capable of scanning a document to be scanned, the scanning apparatus comprising:

5        a first carriage disposed in the cover, wherein the first carriage comprises:

            a first lens with a first optical length between the first lens and the document to be scanned; and

10        a first sensing module with a distance between the first sensing module and the first lens;

15        a second carriage disposed in the scanning bed, wherein the second carriage comprises:

            a second lens with a second optical length between the second lens and the document to be scanned; and

            a second sensing module with the distance between the second sensing module and the second lens;

            wherein a first resolution is produced by the first carriage with the first optical length and a second resolution is produced by the second carriage with the second optical length.

2. The scanning apparatus according to claim 1, wherein the first resolution is a multiple of the second resolution.

3. The scanning apparatus according to claim 2, wherein the multiple is 2.

4. The scanning apparatus according to claim 1, wherein the second resolution  
5 is a multiple of the first resolution.

5. The scanning apparatus according to claim 4, wherein the multiple is 2.

6. The scanning apparatus according to claim 1, wherein the first sensing module is a CCD (Charge Coupled Device).

7. The scanning apparatus according to claim 1, wherein the first sensing  
10 module is a CIS (Contact Image Sensor).

8. The scanning apparatus according to claim 1, wherein the second sensing module is a CCD (Charge Coupled Device).

9. The scanning apparatus according to claim 1, wherein the second sensing module is a CIS (Contact Image Sensor).

15 10. The scanning apparatus according to claim 1, wherein the document to be scanned is a reflective document.

11. The scanning apparatus according to claim 1, wherein the document to be scanned is a transmissive document.